1902.

RIVER TYNE

PORT SANITARY AUTHORITY.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH.

NEWCASTLE-UPON-TYNE:

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River Tyne Port Sanitary Authority.

CONSTITUTED BY LOCAL GOVERNMENT BOARD'S ORDER, DATED 29TH MARCH, 1897.

Elected by the Corporation of Newcastle.

ALDERMAN JOHN GOOLDEN.
COUNCILLOR WILLIAM EDWARD KIRKBY.
COUNCILLOR GEORGE CHRISTOPHER COATES (*Vice-Chairman*).
DR. ADAM WILSON
COUNCILLOR HENRY FORSTER.
DR. JAMES DUNCAN FARQUHARSON.

Elected by the Corporation of Gateshead.

ALDERMAN EDWARD SMITH HINDMARSH (*Chairman*).
COUNCILLOR NICHOLAS TEMPERLEY.

Elected by the Corporation of Tynemouth.

COUNCILLOR GEORGE DOBSON THOMPSON.
COUNCILLOR A. N. DODDS.

Elected by the Corporation of South Shields

ALDERMAN THOMAS DUNN MARSHALL.
ALDERMAN J. R. LAWSON, JUN.

Elected by the Corporation of Jarrow.

ALDERMAN RICHARD HANDYSIDE.

Elected by Corporation of Wallsend, and the Urban District Councils of Walker and Willington Quay.

ALDERMAN GEORGE AUBURN ALLAN.

Elected by the Urban District Councils of Benwell and Fenham, Blaydon, Newburn, and Whickham.

REV. ALF BARRETT TEBB.

Elected by the Urban District Councils of Felling and Hebburn.

COUNCILLOR JOHN SIMPSON.

Officers:

Medical Officer of Health	WM. EDMUND HARKER, M.D., B.S., D.HY.
Clerk and Solicitor	R. SHERITON HOLMES.
Treasurer	JOHN J. PACE.
Inspector of Nuisances	CHARLES IRVIN.
Assistant Inspectors	JOHN RUSSELL, T. W. STURDY, J. W. DAVISON.

Offices: 5, Mosley Street, Newcastle-upon-Tyne.

Inspector's Station: River Tyne Port Sanitary Offices, Mill Dam, South Shields.

River Tyne Port Sanitary Authority.

TYNEMOUTH,

January, 1903.

MR. ALD. EDWARD SMITH HINDMARSH, J.P.,

CHAIRMAN OF THE RIVER TYNE PORT SANITARY AUTHORITY.

SIR,

I have the honour to present herewith my Annual Report for the year 1902.

I am, Sir,

Your obedient Servant,

W. EDMUND HARKER.

RIVER TYNE PORT SANITARY AUTHORITY.

Report of the Medical Officer of Health for the Year ended 31st December, 1902.

Infectious Disease in the Port.—Patients admitted into the Floating Hospital and Deans Hospital.

During 1902, 68 patients have been admitted into the Floating Hospital. 6 patients were admitted into the Jarrow Infectious Hospital. The subjoined Table gives particulars as to the cases and their issue :—

TABLE I.

Date of Admission.	Disease.	Cases Admitted.	Name of Vessel.	Where from.	Result.
1902.					
Feb. 20th ...	Suspected Smallpox	1	s.s. "Lady Salisbury" ...	London	Discharged Feb. 24, 1902
,, 21st ...	Smallpox ...	1	s.s. "Sir W. Raleigh" ...	Malaga & Burnt Island	,, Mar. 12, ,,
,, 28th ...	,, ...	1	s.s. "Whimbrel" ...	Guernsey	,, ,, 29, ,,
Mar. 8th ...	,, ...	1	.....	Borough of Tynemouth	,, ,, 29, ,,
,, 8th ...	,, ...	1	.....	,, ,,	,, ,, 29, ,,
,, 8th ...	,, ...	1	.....	,, ,,	Died ,, 10, ,,
,, 12th ...	,, ...	1	.....	,, ,,	Discharged Apr. 17, ,,
,, 13th ...	,, ...	1	s.s. "Newark" ...	London	,, ,, 10, ,,
,, 14th ...	,, ...	1	.....	Borough of Tynemouth	,, ,, 10, ,,
,, 15th ...	Suspected Smallpox	1	s.s. "Longbenton ...	London	,, Mar. 20, ,,
,, 18th ...	Smallpox ...	1	.....	Borough of Tynemouth	,, ,, 29, ,,
,, 18th ...	,, ...	1	.....	,, ,,	,, Apr. 29, ,,
,, 19th ...	,, ...	1	s.s. "Ratcliff" ...	London	,, May 10, ,,
,, 19th ...	,, ...	1	.....	Borough of Tynemouth	,, Apr. 25, ,,
,, 22nd ...	,, ...	1	.....	,, ,,	,, May 3, ,,
,, 22nd ...	,, ...	1	.....	,, ,,	,, Apr. 29, ,,
,, 24th ...	,, ...	1	.....	,, ,,	,, ,, 10, ,,
,, 26th ...	,, ...	1	.....	,, ,,	,, ,, 7, ,,
,, 26th ...	,, ...	1	.....	,, ,,	,, May 7, ,,
,, 26th ...	,, ...	1	s.s. "Stelling" ...	London	,, Apr. 24, ,,
,, 30th ...	,, ...	1	.....	Borough of Tynemouth	,, ,, 17, ,,
,, 31st ...	,, ...	1	.....	,, ,,	,, ,, 17, ,,
Apr. 3rd ...	,, ...	2	.....	,, ,,	,, ,, 25, ,,
,, 4th ...	,, ...	1	...	,, ,,	,, ,, 9, ,,
,, 4th ...	,, ...	1	.....	,, ,,	,, ,, 29, ,,
,, 6th ...	,, ...	1	.....	,, ,,	,, ,, 19, ,,
,, 7th ...	,, ...	1	.....	,, ,,	,, May 10, ,,
,, 9th ...	,, ...	1	.....	,, ,,	,, Apr. 30, ,,
,, 10th ...	Suspected Smallpox	1	s.s. "Hughenden" ...	Hamburg	,, ,, 12, ,,
,, 11th ...	Smallpox ...	2	.....	Borough of Tynemouth	,, May 13, ,,
,, 11th ...	,, ...	1	.....	Willington, U.D.C. ...	,, Apr. 25, ,,
,, 12th ...	,, ...	1	.....	Borough of Tynemouth	,, May 3, ,,
,, 18th ...	,, ...	1	.....	,, ,,	,, Apr. 29, ,,
,, 18th ...	,, ...	1	.....	,, ,,	,, ,, 30, ,,
,, 18th ...	,, ...	1	.....	,, ,,	,, June 3, ,,
,, 19th ...	Suspected Smallpox	1	s.s. "Walton" ...	London	,, Apr. 22, ,,
,, 20th ...	Smallpox ...	1	.....	Borough of Tynemouth	,, May 29, ,,
	Carried forward	39			

TABLE I.—*Continued.*

Date of Admission.	Disease.	Cases Admitted.	Name of Vessel.	Where from.	Result.
1902.	Brought forward	39			
Apr. 20th ..	Smallpox ...	1	.....	Borough of Tynemouth	Discharged June 3, 1902
,, 20th ...	,, ...	1	.....	,, ,,	,, Apr. 30, ,,
,, 28th ...	,, ...	1	sch. "Primrose" ...	Folkestone	,, May 6, ,,
,, 30th ...	,, ...	1	.....	Borough of Tynemouth	,, ,, 29, ,,
May 6th ...	,, ...	1	.....	,, ,,	,, ,, 29, ,,
,, 12th ...	,, ...	1	.....	,, ,,	Drowned ,, 23, ,,
,, 13th ..	,, ...	1	.....	Borough of Jarrow ..	Died ,, 22, ,,
,, 13th ...	,, ...	1	.....	,, ,,	Discharged ,, 29, ,,
,, 15th ...	,, ...	1	.....	Blaydon U.D.C. ...	,, June 14, ,,
,, 16th ...	,, ...	1	.....	,, ,,	,, ,, 10, ,,
,, 17th ...	,, ...	1	.....	,, ,,	,, May 29, ,,
,, 22nd ...	,, ...	1	.....	Borough of Wallsend	,, July 2, ,,
,, 22nd ...	,, ...	1	.....	Borough of Tynemouth	,, June 24, ,,
,, 23rd ...	,, ...	1	.....	,, ,,	,, ,, 3, ,,
,, 26th ...	,, ...	1	.....	,, ,,	,, ,, 6, ,,
,, 26th ...	,, ...	1	.....	Blaydon U.D.C. ...	,, ,, 10, ,,
,, 27th ...	,, ...	2	.....	,, ,,	,, ,, 10, ,,
,, 27th ...	,, ...	1	.....	,, ,,	,, July 2, ,,
,, 28th ..	,, ...	1	.....	Borough of Tynemouth	,, June 14, ,,
Sep. 22nd ...	Enteric Fever ...	2	s.s. "Gladiolus" ...	Benisaf	,, Oct. 25, ,,
,, 25th ...	,, ...	1	s.s. "Buluwayo" ...	London	,, Nov. 3, ,,
,, 28th ...	,, ...	1	s.s. "Florence Pile" ...	Sulina	,, ,, 17, ,,
,, 30th ...	,, ...	1	sch. "Joe" ..	Skelleftea	,, Oct. 23, ,,
Oct. 23rd ...	Scarlet Fever ...	1	sch. "Hildred" ...	Ramsgate	,, Dec. 8, ,,
,, 25th ...	,, ...	1	Training Ship "Wellesley"	River	,, ,, 8, ,,
,, 27th ...	,, ...	1	,, ,,	,, ...	,, ,, 23, ,,
,, 31st ...	* Enlargement of Glands with Fever ...	1	s.s. "Bellerby" ...	Leghorn, Sulina, Rotterdam ...	Still in hospital.
		68			

* Case proved to be due to syphilitic infection.

Patients Admitted into the Jarrow Infectious Hospital.

1902.					
Mar. 19th ...	Scarlet Fever ...	1	bk. "Jacqueline" ...	Iquique and Dunkirk	Discharged Mar. 29, 1902
April 3rd ...	Enteric Fever ...	1	s.s. "Bullmouth" ...	Singapore and Amsterdam	,, Apr. 26, ,,
July 7th ...	,, ,, ...	1	s.s. "Mount Temple" ...	Durban and St. Vincent	,, Aug. 2, ,,
,, 15th ...	,, ,, ...	1	s.s. "Cousins Arbib" ...	Barcelona and Benisaf	,, ,, 8, ,,
,, 18th ...	,, ,, ...	1	s.s. "Midnight Sun" ...	Bergen	,, ,, 16, ,,
Sept. 8th ...	,, ,, ...	1	s.s. "Circassian Prince"	Leith	Died Sep. 10, ,,
		6			

Vessels Boarded by Medical Officer of Health.

46 vessels have been visited by Medical Officer of Health on account of reported or suspected sickness on board.

The following table gives the list of vessels boarded during 1902 by the Medical Officer of Health on account of disease on board during the voyage, or at the time of arrival in the Tyne:—

TABLE II.

Date.	Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	Remarks.
Feb. 10	bk. "Antoinette"...	French ...	Dunkirk ...	Heart Disease ...	Medical Officer of Health boarded vessel and physically examined the crew and found all well, one fatal case of Heart Disease after arrival.
,, 17	s.s. "Lady Salisbury"	British ...	London	Influenza ...	One of the seamen was removed to the Floating Hospital for isolation. Vessel and crew's effects disinfected.
,, 21	s.s. "Sir Walter Raleigh"	,, ...	Burnt Island	Smallpox ...	Medical Officer of Health found one of the seamen suffering from Smallpox and he was removed to the Floating Hospital. Vessel and crew's effects were disinfected and the addresses of contacts were forwarded to the Medical Officer of Health, South Shields.
,, 26	s.s. "Olaf Kyrre"	Norwegian	Cape Town...	... ...	Medical Officer of Health medically examined crew and found them all well.
,, 28	s.s. "Whimbrel" ...	British ...	Guernsey ...	Smallpox ...	Medical Officer of Health found one of the seamen suffering from Smallpox and he was removed to the Floating Hospital. The vessel and crew's effects were disinfected. All the crew refused re-vaccination excepting one man.
Mar. 13	s.s. "Newark" ...	,, ...	London ...	,, ...	Medical Officer of Health medically inspected crew and found the Chief Engineer suffering from Smallpox. He was removed to the Floating Hospital. The vessel and crew's effects were thoroughly disinfected. Proceedings were taken in this case against the Master for failing to report the case on arrival at H.M. Customs Hailing Station. He was fined 40s. and costs.
,, 15	s.s. "Longbenton"	,, ...	London ...	,, ...	Medical Officer of Health medically inspected crew and ordered the removal of a suspicious case to the Floating Hospital for isolation. The vessel was disinfected.
,, 19	bk. "Jacqueline"...	French ...	Iquique and Dunkirk	Scarlet Fever ...	Medical Officer of Health boarded vessel and found the Second Mate suffering from Scarlet Fever and ordered his removal to the Jarrow Borough Hospital. The vessel was disinfected.
,, 19	s,s. "Ratcliff" ...	British ...	London ...	Smallpox ...	Medical Officer of Health medically inspected crew and found the donkeyman suffering from Smallpox. He was removed to the Floating Hospital. The vessel and crew's effects were thoroughly disinfected.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	Remarks.
Mar. 26	s.s. "Stelling" ...	British ...	London ...	Smallpox ...	Medical Officer of Health examined the crew and found one suffering from Smallpox. He was removed to the Floating Hospital. The vessel and all the crew's effects were disinfected.
,, 31	s.s. "Tom John Taylor"	,, ...	,, ...	Suspected Smallpox	Medical Officer of Health medically examined the man and found it non-infectious.
April 4	s.s. "Cairnalt" ...	,, ...	,, ...	Paralysis ...	Medical Officer of Health boarded vessel and found the watchman suffering from Paralysis. Medical treatment recommended.
,, 9	s.s. "Eastfield" ...	,, ...	Mobile ...	Rheumatic Fever	Medical Officer of Health boarded vessel and found one of the seamen suffering from Rheumatic Fever. He was recommended to the Newcastle Infirmary.
,, 10	s.s. "Kurdistan" ...	,, ...	Rotterdam ...	Influenza ...	Medical Officer of Health boarded vessel and found one of the crew suffering from Influenza. Medical treatment recommended.
,, 10	s.s. "Hughenden"	,, ...	Hamburg ...	,, ...	One of the crew was removed to the Floating Hospital for isolation.
,, 12	s.s. "Harbourne" ...	,, ...	London ...	Non-infectious case	Medical Officer of Health boarded vessel and found Chief Officer and one of the crew suffering from non-infectious complaint. Medical treatment recommended.
,, 18	s.s. "Bangor" ...	,, ...	Hamburg ...	,, ,,	Medical Officer of Health boarded vessel and found one of the crew suffering from a non-infectious disease. Examined remainder of crew and found them all well.
,, 19	s.s. "Walton" ...	,, ...	London ...	Influenza ...	Medical Officer of Health boarded vessel and ordered one of the crew to the Floating Hospital for isolation.
,, 28	sch. "Primrose" ...	,, ...	Folkestone ...	Suspected Smallpox	One of the crew was removed to the Floating Hospital for isolation.
,, 30	s.s. "Nellie Wise"	,, ...	London ...	Smallpox ...	Captain's wife had been removed to Hospital at Sunderland suffering from Smallpox. Medical Officer of Health examined crew and ordered disinfection of ship.
July 6	s.s. "Mount Temple"	,, ...	Durban and St. Vincent	Enteric Fever ...	There were two cases of Enteric Fever during the voyage and one case on arrival, which was removed to the Jarrow Infectious Hospital. The vessel was disinfected and the water tanks cleansed and refilled.
,, 14	s.s. "Cousins Arbib"	,, ...	Benisaf ...	,, ,, ...	Medical Officer of Health boarded vessel and found the Second Engineer suffering from Enteric Fever and ordered his removal to the Jarrow Infectious Hospital. The vessel was disinfected and the water tanks cleansed and refilled.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	Remarks.
July 18	s.s. "Midnight Sun"	British ...	Bergen ...	Enteric Fever ...	The Surgeon was notified to be suffering from Enteric Fever and was removed to the Jarrow Infectious Hospital for treatment.
,, 21	s.s. "Boxgrove" ...	,, ...	Mobile ...	Malarial Fever ...	Medical Officer of Health visited the vessel and found 7 of the seamen recovering from Malarial Fever, who were recommended to the Royal Infirmary, Newcastle.
Aug. 6	s.s. "Orange Prince"	,, ...	Batoum and Rouen	Non-infectious case	Medical Officer of Health boarded vessel and found the Master suffering from a non-infectious case.
,, 10	s.s. "Imani" ...	,, ...	Baltimore and Havre	Suspected Bubonic Plague	Medical Officer of Health received a telephone message from Dr. George Murray, Physician to the Royal Infirmary, in reference to a suspicious case of sickness. The patient being an Indian Lascar, admitted from the s.s. "Imani." He was admitted on August 7th, and died on the 8th. The body was lying at the Mortuary of the Royal Infirmary. In the evening of the 10th I met Dr. Hy. E. Armstrong and the House Physician at the Royal Infirmary, and made a Post Mortem examination of the body. The conditions found and the result of a Bacteriological examination of specimens taken from the internal organs pointed to the case being one of Bubonic Plague. A consultation was held and we agreed to adopt measures of destroying all possible sources of infection, by careful and efficient disinfection, after the cremation of the body, which was promptly carried out. The Medical Officer of Health of Newcastle notified the Local Government Board and forwarded specimen for confirmation of diagnosis of Plague. On August 13th the Local Government Board wired that the Bacteriological experiment give negative results. Both Dr. Hy. E. Armstrong and myself visited the Local Government Board when in town and discussed the difficulties of such cases, and they agreed with the precautionary measures adopted in this case. Dr. Hy. Armstrong and myself agreed to recommend that in the future no cases should be admitted into the Royal Infirmary from ships without a certificate from the Port Medical Officer of Health or a qualified medical practitioner.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	Remarks.
Aug. 15	s.s. "Arabistan" ...	British ...	Durban ...	... ...	Medical Officer of Health boarded this vessel and medically examined the crew, including 21 Lascars, and found all well.
,, 29	s.s. "Musques" ...	Spanish ...	Bilboa and Middlesbro'	Non-infectious case	Medical Officer of Health boarded vessel and found one of the crew suffering from a non-infectious disease, and ordered his removal to the Royal Infirmary, Newcastle.
Sept. 8	s.s. "Circassian Prince"	British ...	Leith ...	Enteric Fever ...	Medical Officer of Health boarded vessel and found the 2nd Officer suffering from Enteric Fever, and ordered his removal to the Jarrow Infectious Hospital.
,, 8	s.s. "Cambrian King"	,, ...	Baltimore and Havre	Non-infectious case	Medical Officer of Health boarded vessel and found the 3rd Officer suffering from a non-infectious disease. Medical treatment recommended.
,, 11	sch. "Zenith" ...	,, ...	London ...	Syphilis	Medical Officer of Health boarded vessel and found one of the crew suffering from Syphilis and ordered his removal to the South Shields Union Hospital.
,, 19	s.s. "Eleanor" ...	,, ...	Bilboa ...	Smallpox ...	The 2nd Engineer of this vessel was reported from the Health Office, Newcastle, to be suffering from Smallpox. He was well on arrival in the Tyne.
,, 22	s.s. "Gladiolus" ...	,, ...	Benisrf ...	Enteric Fever ...	Medical Officer of Health found two of the crew suffering from Enteric Fever and ordered their removal to the Floating Hospital. Vessel was thoroughly disinfected and water tanks cleansed and refilled.
,, 25	s.s. "Buluwayo" ...	,, ...	London ...	,, ,,	Medical Officer of Health examined the crew of 50 Lascars and found one of them suffering from Enteric Fever and ordered him to be removed to the Floating Hospital. The vessel was afterwards thoroughly disinfected.
,, 28	s.s. "Florence Pile"	,, ...	Sulina ...	,, ,,	One of the crew was found suffering from Enteric Fever and the Medical Officer of Health ordered his removal to the Floating Hospital. The vessel was disinfected, water tanks cleansed and refilled.
,, 30	brig "Joe" ...	Russian ...	Skelleftea ...	,, ,,	Medical Officer of Health found one of the crew suffering from Enteric Fever and ordered him to the Floating Hospital. Vessel was thoroughly disinfected and water tanks ordered to be cleansed and refilled.
Oct. 6	s.s. "Harpulus" ...	British ...	London ...	Paralysis ...	Medical Officer of Health boarded vessel and found the Chief Engineer suffering from Paralysis.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	REMARKS.
Oct. 6	s.s. "St. Hubert"...	British ...	Wilmington and St. Petersburg	Enteric Fever ...	Medical Officer of Health ordered water tanks to be emptied and cleansed, as two cases of Enteric Eever had been reported after arrival.
,, 24	s.s. "Stranton" ...	,, ...	Carthagena, Bo'ness, Granton	Smallpox ...	Medical Officer of Health boarded vessel and physically examined the crew, as a case of Smallpox had been landed at Leith, crew were all well on arrival in the Tyne. The vessel had been efficiently disinfected at Leith.
,, 25	t.s. "Wellesley" ...	,, ...	River ...	Scarlet Fever ...	Medical Officer of Health boarded vessel and found one of the boys suffering from Scarlet Fever and ordered his removal to the Floating Hospital.
,, 28	s.s. "Buluwayo" ...	,, ...	London ...	Non-infectious ...	Medical Officer of Health boarded vessel and found one of the crew suffering from a non-infectious disease. Medical treatment recommended.
Nov. 1	s.s. "Bellerby" ...	,, ...	Leghorn Selina, Rotterdam	Enlargement of Glands with Fever	Medical Officer of Health received a notification that one of the crew was suffering from a suspicious illness and ordered his removal to the Floating Hospital. The case proved to be due to syphilitic infection.
,, 9	s.s. "Albert Teves"	Italian ...	Taganrog, Novorossisk, and Brake	Non-infectious cases	Medical Officer of Health boarded vessel and found three of the crew suffering from non-infectious complaints. Medical treatment recommended.
,, 14	s.s. "Stranton" ...	British ...	Carthagena, Bo'ness, Granton	,, ,,	Medical Officer of Health examined one of the crew and found him suffering from a non-infectious disease. Medical treatment recommended.
,, 14	s.s. "Scawsby" ...	,, ...	Taganrog and Amsterdam	,, ,,	Medical Officer of Health examined the Captain and found him suffering from a non-infectious disease. Medical treatment recommended.
Dec. 11	bk. "Windsor Park"	,, ...	Cape Town, Newcastle N.S.W., San Francisco	Plague Infected Ports	Medical Officer of Health boarded vessel to make arrangements for its fumigation for the destruction of rats.

PLAGUE PRECAUTIONS.

List of Vessels fumigated for the destruction of Rats.

TABLE III.

Date.	Name of Vessel.	From.	Nationality.	Cargo.	Remarks.
Jan. 2	s.s. "Gloxinia" ...	Hamburg ...	British ...	W.B. ...	Fumigated at Owner's request, also in accordance with Plague Regulations at Hamburg.
,, 7	bk. "Dherwar" ...	Sydney	Swedish ...	Wheat ...	20 dead rats were collected after fumigation and cremated.
,, 9	s.s. "Fort Salisbury"	Cape Town ...	British ...	W.B. ...	34 dead rats were collected after fumigation and cremated.
,, 24	s.s. "Juno" ...	Hamburg ...	,, ...	G.C. ...	Fumigated in accordance with Plague Regulations at Hamburg.
,, 24	bk. "Liv"... ...	Sydney	Norwegian...	Wheat ...	28 dead rats were collected after the fumigation of the vessel.
,, 27	bk. "Loch Katrine"	,, ...	British ...	,, ...	30 dead rats were collected after the fumigation of the vessel and cremated.
Feb. 19	s.s. "Warkworth"	Hamburg ...	,, ...	G.C. ...	Fumigated in accordance with Plague Regulations at Hamburg.
,, 21	s.s. "Royal Dane"...	,, ...	,, ...	,, ...	Fumigated in accordance with Plague Regulations at Hamburg.
Mar. 5	bk. "William Law"	San Francisco ...	,, ...	Wheat ...	40 dead rats were collected after fumigation and cremated.
April 29	s.s. "M. C. Holm"	Buenos Ayres and Rosario ...	Norwegian...	,, ...	Several dead rats were collected after fumigation and cremated.
May 5	bk. "Henriette" ...	San Francisco ..	German ...	,, ...	26 dead rats were collected after fumigation and cremated.
,, 8	bk. "Isabel Browne"	,, ,, ...	British ...	,, ...	Vessel was fumigated for the destruction of rats.
,, 8	s.s. "John Ormston"	Hamburg ...	,, ...	G.C. ...	Fumigated in accordance with Plague Regulations at Hamburg.
,, 24	s.s. "Norman" ...	Rosario	,, ...	Wheat ...	Several dead rats were found after fumigation and burnt.
June 4	s.s. "Royal Dane"...	Hamburg ...	,, ...	G.C. ...	Vessel fumigated in accordance with Plague Regulations at Hamburg.
,, 4	s.s. "Newquay" ...	Bristol	,, ...	W.B. ...	Vessel fumigated for the destruction of rats, several were found after fumigation which were burnt.
,, 19	s.s. "Asiatic Prince"	Rosario	,, ...	Wheat ...	40 dead rats were collected after fumigation and cremated.
July 5	s.s. "Admiral" ...	Hamburg ...	,, ...	G.C. ...	Vessel fumigated in accordance with Plague Regulations at Hamburg.
Aug. 16	s.s. "Richmond" ...	London	,, ...	W.B. ...	Fumigated at Owner's request as she had been occupied by an Asiatic crew.
,, 25	bk. "Invergarry"...	Middlesborough	,, ...	—	Fumigated for the destruction of rats at Owner's request. 30 rats were collected.
,, 27	bk. "Lota" ...	Sydney	,, ...	Wheat ...	Several dead rats were found after fumigation which were cremated.
Sept. 5	s.s. "Royal Dane"	Hamburg ...	,, ...	G.C. ...	Vessel fumigated in accordance with Plague Regulations at Hamburg.
Oct. 7	s.s. "Admiral" ...	,, ...	,, ...	,, ...	Vessel fumigated in accordance with Plague Regulations at Hamburg.
Nov. 17	bk. "Francois" ...	San Francisco ...	French ...	Wheat ...	Several dead rats were found after fumigation and cremated.

TABLE III.—*Continued.*

Date.	Name of Vessel.	From.	Nationality.	Cargo.	Remarks.
Dec. 8	s.s. "Royal Dane"	Hamburg ...	British ...	G.C. ...	Vessel fumigated in accordance with Plague Regulations at Hamburg.
„ 13	s.s. "Isle of Hastings"	Genoa and Baltchiek	„ ...	Wheat ...	Vessel was fumigated for the destruction of rats. 12 rats were found and burnt.
„ 20	bk. "Windsor Park"	Cape Town, Newcastle, N.S.W., San Francisco	„ ...	„ ...	Vessel was fumigated for the destruction of rats. No rats were found.

SMALLPOX AND SUSPECTED SMALLPOX.

Date.	Name of Vessel.	From.	On Voyage	On or after Arrival.	Remarks.	Notes on arrival in Tyne.
February 20	s.s. "Lady Salisbury"	Cardiff and London.	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
,, 21	s.s. "Sir W. Raleigh"	S. Fielude, Burnt Island	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
,, 26	s.s. "Jacona" ...	Portland, London, Blyth	2	—	Cases landed at London	Vessel and crew's effects disinfected at London.
,, 26	s.s. "Jacona" ...	Portland, London, Blyth	3	—	Cases landed at Blyth.	Vessel and crew's effects disinfected at Blyth.
,, 28	s.s. "Whimbrel" ...	Bristol and Guernsey	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
March 13 ...	s.s. "Newark" ...	London ...	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
,, 15 ...	s.s. "Longbenton" ...	London ...	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
,, 19 ...	s.s. "Ratcliff" ...	London ...	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
,, 23 ...	s.s. "Opal"	Valencia, Burriana and London	1	—	Case landed at Gravesend.	Vessel and crew's effects disinfected at Gravesend.
,, 24 ...	s.s. "Ituna"	London	2	—	Cases landed at London.	Vessel and crew's effects disinfected at London.
,, 26 ...	s.s. "Stelling" ...	London	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
April 8 ...	s.s. "Tom John Taylor"	London	1	—	Case landed at London.	Vessel and crew's effects disinfected at London.
,, 10 ...	s.s. "Hughenden" ...	Odessa and Hamburg	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
,, 19 ...	s.s. "Walton" ...	London	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
,, 28 ...	sch. "Primrose" ...	Folkestone	—	1	Case landed at Floating Hospital.	Vessel and crew's effects disinfected here.
May 1 ...	s.s. "Ibex"	Carthagena and Middlesbro'	1	—	Case landed at Middlesbro'	Vessel and crew's effects disinfected at Middlesbro'
September 18	s.s. "Eleanor" ...	Bilboa ...	—	1	Case landed at Newcastle.	Vessel and crew's effects disinfected here.
October 18 ...	s.s. "Sestao" ...	Bilboa and Middlesbro'	1	—	Case landed at Middlesbro'	Vessel and crew's effects disinfected at Middlesbro'
,, 24 ...	s.s. "Stranton" ...	Carthagena, Granton.	1	—	Case landed at Granton.	Vessel and crew's effects disinfected at Granton.
			12	11		

MEASLES.

July 22 ...	s.s. "Nevada" ...	Leith ...	—	1	Isolated on board ship.	
			—	1		

INFLUENZA.

Twenty-one cases reported on voyage and on arrival.

ENTERIC OR TYPHOID FEVER.

Date.	Name of Vessel.	From.	On Voyage.	On or after Arrival.	Remarks.	Notes on arrival in Tyne.
Feb. 13 ...	s.s. "Bullmouth" ...	Rangoon and Amsterdam	1	—	Case landed at Batoum ...	Vessel disinfected at Batoum ... ...
April 3 ...	s.s. "Bullmouth" ...	Rangoon and Amsterdam	—	1	Case landed at Jarrow Borough Hospital ...	Vessel disinfected here
,, 8 ...	s.s. "Ivydene" ...	Kurachee and Antwerp	1	—	Case landed at Port Said ...	Vessel disinfected at Port Said ...
June 3 ...	s.s. "Buluwayo" ...	Cape Town and London	1	—	Case during the voyage ...	—
July 1 ...	s.s. "Phyllis" ...	Rotterdam ...	1	—	Case landed at Rotterdam ...	Vessel disinfected at Rotterdam ...
,, 5 ...	s.s. "Moorish Prince"	Alexandria and London	1	—	Case landed at London ...	Vessel disinfected at London
,, 6 ...	s.s. "Mount Temple"	Durban and St. Vincent	2	—	Cases during the voyage ...	—
,, ,, ...	,, ,, ...	Durban and St. Vincent	—	1	Case landed at Jarrow Borough Hospital ...	Vessel disinfected here
,, 14 ...	s.s. "Cousins Arbib"	Barcelona and Benisaf	—	1	Case landed at Jarrow Borough Hospital ...	Vessel disinfected here
,, 18 ...	s.s. "Midnight Sun"	Bergen ...	—	1	Case landed at Jarrow Borough Hospital ...	Vessel disinfected here
Aug. 22 ...	s.s. "Fort Salisbury"	Cape Town and London	2	—	Case landed at Southampton ...	Vessel disinfected at Southampton ...
Sept. 8 ...	s.s. "Circassian Prince"	Leith	—	1	Case landed at Jarrow Borough Hospital ...	Vessel disinfected here
,, 22 ...	s.s. "Gladiolus" ...	Benisaf ...	—	2	Case landed at Floating Hospital ...	Vessel disinfected here
,, 28 ...	s.s "Florence Pile" ...	Cardiff and Sulina	—	1	Case landed at Floating Hospital ...	Vessel disinfected here
,, 30 ...	sch. "Joe"	Skelleftea ...	—	1	Case landed at Floating Hospital ...	Vessel disinfected here
Oct. 6 ...	s.s. "Hubert" ...	Wilmington and St. Petersburg	—	2	Cases removed to Deans Hospital, South Shields ...	Vessel disinfected here
,, 7 ...	s.s. "Snilesworth" ...	Rotterdam and Portland	1	—	Case landed at Portland ...	Vessel disinfected at at Portland ...
Dec. 30 ...	s.s. "Rossija" ...	Libau and Rotterdam	—	1	Case landed at Tynemouth Hospital ...	Vessel disinfected here
			10	12		

SCARLET FEVER.

Mar. 15 ...	bk. "Jacqueline" ...	Iquique and Dunkirk ...	—	1	Case landed at Jarrow Borough Hospital ...	Vessel disinfected here
Oct. 23 ...	sch. "Hildred" ...	Ramsgate ...	—	1	Case landed at Floating Hospital ...	Vessel disinfected here
,, 25 ...	t.s. "Wellesley" ...	River	—	1	Case landed at Floating Hospital ...	Veseel disinfected here
,, 27 ...	,, ,, ...	River	—	1	Case landed at Floating Hospital ...	Vessel disinfected here
				4		

DIARRHŒA, CHOLERAIC AND SUSPICIOUS CASES.

Date	Name of Vessel.	From.	No. of Cases. On Arrival.	No. of Cases. On or after Arrival.
April 23	s.s. "Ardlethan"	Tripoli	1	—
May 11	s.s. "Broadmayne"	Philadelphia and Rotterdam ...	1	—
Aug. 27	s.s. "Cairnloch"	Bilboa and Boulogne	—	1
Oct. 7	s.s. "Kathleen"	Almeria and Tayport	—	1
,, 29	s.s. "Johan"	Lulea	1	—
Nov. 24	s.s. "Strathnevis"	Bremerhaven and Rensburg ...	1	—
,, 28	s.s. "Carperby"	Sulina and Moss	1	—
		Total ...	5	2

MALARIAL FEVER.

Jan. 10	s.s. "Anversville"	Antwerp	1	—
Feb. 4	s.s. "Cayo Bonito"	Pensacola and Bremerhaven ...	2	—
,, 21	s.s. "Venetia"	Calcutta and Dundee	5	—
,, 1	s.s. "Saint Regulus" ...	Odessa and Copenhagen	4	—
Mar. 14	s.s. "La Campine"	Batoum and Antwerp	1	—
Apr. 4	s.s. "Fyen"	Rotterdam	1	—
,, 10	s.s. "Matimba"	Congo and Rotterdam	1	—
,, 26	bk. "Rollo"	Tal-Tal	8	—
,, 30	s.s. "Blomfontein"	East London and London ...	1	—
May 5	s.s. "Mandingo"	Africa and Hamburg	2	—
June 16	s.s. "Anversville"	River Congo and Antwerp ...	5	—
July 21	s.s. "Boxgrove"	Mobile and Norfolk	7	—
Oct. 24	s.s. "Congo"	West Coast of Africa and Hamburg	8	—
,, 27	s.s. "Wilhelmina"	Philadelphia, Baltimore, Vera Cruz	8	—
Nov. 3	s.s. "Vera"	Wilmington and Bremerhaven ...	4	—
,, 12	s.s. "Spennymoor"	Mobile and Rotterdam	1	—
,, 17	s.s. "Greenwich"	Sydney, Mobile, Delfzyl	1	—
Dec. 24	s.s. "Abcokuta"	West Coast of Africa and Hamburg	2	—
		Total ...	62	—

DYSENTERY.

July 12	s.s. "Devona"	Montreal and London	1	—
Aug. 17	bk. "Arabia"	Beira and Fremantle	1	—
Oct. 11	s.s. "Pondu"	Port Elizabeth	1	—
,, 27	s.s. "Wilhelmina"	Philadelphia, Baltimore, Vera Cruz	1	—
		Total ...	4	—

The subjoined Table gives a return of cases of Sickness* reported by Masters notice of the Tyne Port Officials,

TABLE

DATE. 1902.	Smallpox or Suspected Smallpox.	Scarlet Fever.	Measles.	Influenza.	Enteric Fever.	Diarrhœa or Choleraic Diarrhœa.	Erysipelas.	Dysentery.	Malarial Fever.	Inflammation.	Boils.	Blood Poisoning.	Asiatic Cholera.	Venereal.	Consumption.	Heart Disease.
January	...	...	...	...	...	...	1	...	x 1	1	1	...	...	2	2	...
February	ooo 8	...	...	2	1	...	...	...	xxxx 11	...		..	...	4	...	...
March	oooo 7	* 1	...	3	...	...	1	...	1	...	...	1	...	1	...	...
April	ooo 4	...	...	6	* 2	1	1	...	xx 11	...	...	...	...	3	...	...
May	1	...	...	2	...	1	...	...	2	...	2	...	...	2	3	1
June	...	...	...	2	x 1	...	...	...	5	2	...	...	...	3	...	xx 3
July	...	...	1	...	*** 7	...	...	1	7	...	...	...	...	4	x 1	xx 2
August	...	...	...	2	2	1	...	x 1	...	x 2	2	...	..	7	...	1
September	1	...	...	...	*oooo 5	...	...	...	...	...	...	...	...	5	...	x 1
October	2	ooo 3	...	3	3	2	...	xx 2	x 16	x 2	1	2	...	4	x 1	...
November	...	...	...	...	.	2	...	...	x 6	3	...	1	...	8	1	x 2
December	...	...	...	1	* 1	...	1	...	x 2	...	1	x 1	xx 2	6	2	1
TOTALS	23	4	1	21	22	7	4	4	62	10	7	5	2	49	10	11

The names of the Diseases during voyage are given as reported by the Masters of the Vessels.

VESSELS ARRIVING IN TYNE PORTS.

of Vessels as having occurred during the Voyage, or coming under the
in each month of the year 1902.

IV.

Rheumatism.	Neuralgia.	Lumbago.	Cold.	Pneumonia.	Pleurisy.	Bronchitis.	Tonsilitis.	Cramp.	Indigestion.	Beri Beri.	Rupture.	Ill-defined.	Debility.	Fever and Ague.	Insanity.	Paralysis.	Accidents.	Intemperance.	TOTALS.
5	1	...	4	...	...	1	...	...	...	xxxx 4	...	...	...	...	1	...	4	...	28
...	...	...	1	...	x 1	4	...	1	3	...	1	...	...	...	...	1	xx 3	...	41
1	...	...	2	...	...	2	...	...	...	...	2	1	...	...	...	...	x 7	...	30
2	...	...	6	...	1	1	2	...	...	...	1	1	...	...	...	...	4	5	51
1	...	2	1	...	...	1	...	2	...	xx 2	1	5	...	...	...	...	x 1	...	30
...	...	...	3	x 3	...	1	...	6	...	...	1	...	...	...	...	...	1	...	31
2	...	...	4	...	...	...	...	2	...	...	1	...	1	...	...	x 2	x 3	1	39
2	...	...	4	...	1	...	...	2	1	...	1	...	...	...	x 1	..	xxx 7	...	37
3	...	1	3	x 1	x 1	1	...	...	1	...	1	1	3	1	1	1	10	...	41
2	...	...	2	1	...	1	...	...	2	...	...	o 1	...	1	...	1	8	...	60
5	1	1	10	x 2	xx 3	1	...	2	2	x 1	1	...	5	...	x 1	...	x 8	1	67
2	...	...	4	...	...	1	...	...	1	...	1	3	1	1	1	...	xx 8	x 2	43
25	2	4	44	7	7	14	2	15	10	7	11	12	10	3	5	5	64	9	498

x Deaths. o Removed to Tyne Floating Hospital. * Removed to Shore Hospitals.

Vessels Arriving from Infected or Suspected Ports.*

The following return shows the number of Vessels boarded in this Port by the Officers of the Port Sanitary Authority, on account of coming directly or otherwise from Foreign Ports infected, or suspected to be infected, with Cholera, Yellow Fever, Plague, or Smallpox:—

Months.	From Infected Ports.		From Suspected Ports.		Totals.
	Direct to the Tyne.	To the Tyne Indirectly.	Direct to the Tyne.	To the Tyne Indirectly.	
	No. of Vessels.	No. of Vessels.	No. of Vessels.	No. of Vessels.	
January	186	34	9	40	269
February	191	46	9	23	269
March	154	23	9	29	215
April	237	34	7	20	298
May	202	34	12	10	268
June	157	28	6	19	210
July	138	20	7	16	181
August	142	34	9	28	213
September	20	31	17	30	98
October	26	39	5	32	102
November	12	35	12	42	101
December	8	44	16	31	99
Total	1,473	402	118	320	2,323

* See Opposite Page.

Vessels arriving in the Tyne from infected ports were boarded by the Officers of the Tyne Port Sanitary Authority, as under:—

Name of Ports.	Direct to the Tyne.	To the Tyne Indirectly.	Name of Ports.	Direct to the Tyne.	To the Tyne Indirectly.
			Brought Forward ...	1,443	284
Alexandria	—	16	Oran	2	7
Aquillas	—	5	Odessa	2	34
Almeria	4	24	Oporto	—	7
Algiers	4	4	Persian Gulf ...	—	1
Buenos Ayres ...	—	15	Rosario	4	2
Bombay	1	10	Rio Janeiro	—	1
Bilboa	91	130	River Plate	—	22
Benisaf	28	4	Rangoon	—	6
Calcutta	—	16	Singapore	—	5
Cape Town	18	22	Smyrna	—	10
Carthagena	3	25	St. Petersburg ...	4	15
Garrucha	4	10	San Francisco ...	13	5
Japan	—	1	Tripoli	5	2
London	1,290	—	Vera Cruz	—	1
Monte Video ...	—	2			
Carried Forward ...	1,443	284	Total	1,473	402

Emigrants.

Emigrant vessels coming to the Tyne have, as heretofore, been visited by the Inspectors on arrival, and kept under supervision whilst in port.

Information as to Emigrants debarking here and proceeding overland to other British Ports, continues to be forwarded to the Medical Officers of Health of the respective Ports.

The number of Emigrants passing through the Tyne Port during 1902, so far as is known, was as follows :—

	No. of Emigrants.
For America by White Star Line from Liverpool	689
,, ,, Cunard Line ,, ,, ...	875
,, ,, American Line ,, ,, ...	474
,, ,, Beaver Line ,, ,, ...	65
,, ,, Allan Line ,, ,, ...	151
,, ,, Anchor Line from Glasgow	52
,, ,, Dominion Line from Liverpool	121
,, ,, Union Castle Line	7
	2,434

General Sanitary Work.

The following is the report of inspections made and other work done by Inspector Irvin and his assistants :—

Vessels inspected during the year 1902 :—

British Steamers	4,194
,, Sailing Vessels	243
,, Fishing ,, ...	1,504
Foreign Steamers	1,762
,, Sailing Vessels	319
Total	8,022
Extra Visits Paid	510
Visits to Water Boats	35
,, Gangways	23
Total Number of Visits	8,590

The Nationalities of the Vessels were as follows :—

British	5,941
Norwegian	687
German	392
Swedish	255
Danish	315
Spanish	163
French	66
Russian	79
Greek	10
Dutch	58
Italian	7
Austrian	31
Belgian	17
Hungarian	1
	8,022

Of the above Vessels, the Sanitary condition was as follows :—

Good	7,512
Structural defects	265
Dirty condition	245
Total	8,022

The number of Vessels inspected during each of the last twenty-one years has been as follows :—

In 1880	2,997
„ 1881	3,309
„ 1882	6,623
„ 1883	11,572
„ 1884	12,078
„ 1885	13,530
„ 1886	12,139
„ 1887	13,045
„ 1888	12,819
„ 1889	13,566
„ 1890	12,018
„ 1891	11,533
„ 1892	9,582
„ 1893	11,327
„ 1894	12,043
„ 1895	11,757
„ 1896	12,348
„ 1897	15,351
„ 1898	15,602
„ 1899	12,984
„ 1900	8,473
„ 1901	9,100
„ 1902	8,022

The structural defects of Vessels observed include the following :—

	Cases.
Insufficient Ventilation	24
Iron Deck to Line with Wood	56
Paint Locker in bad position	9
Defective Lighting	9
Defective Water Closets	13
Forecastle Deck Leaking	76
Side cuttles to re-fit	74
Forecastle Flooring Defective	3
Overcrowding	1
Total	265

The peaks, forecastles, and water closets of the vessels specified under were found in dirty condition. Orders given to cleanse same were fully complied with.

British Steamers	250
„ Sailing Vessels	25
„ Fishing Vessels	65
Foreign Steamers	135
„ Sailing Vessels	35
Total	510

Total number of crews of vessels visited by the Inspectors	131,953
„ „ passengers „ „ „ „	32,504
„ „ emigrants arriving in the Tyne „	2,434
Total	166,891

Vessels arriving Coastwise and inspected	3,561
Fishing vessels arriving Coastwise and inspected	1,504
Vessels arriving from Foreign Ports and inspected	2,957
	8,022

Special Cargoes Inspected.

Among the different cargoes examined by the Inspectors were the undermentioned :—

Description.	Onions.	Wheat.	Foreign and British Fish.	Potatoes.	Fruit.	Total.
No. of Consignments examined ...	8	111	1,504	12	51	1,690

Water-Boats and Water Supply to Ships in Port.

The water-boats, 32 in number, have been examined as usual, and the tanks found in good condition.

In 52 cases the *drinking water* of ships, which came from Ports infected, or suspected to be infected, with Cholera, has been changed, and the purification of the tanks has been seen to by the Inspector, acting under the direction of the Medical Officer of Health.

Advices as to Sickness

on shipboard, and other matters, continued to be received from and forwarded to the Health Departments of other British Port Sanitary Authorities.

Clothing and Bedding.

17 vessels and several lots of clothing or bedding have been **disinfected.** 130 old beds have been burnt, and 15 lots of filthy clothing have been destroyed, on account of infection.

Passenger Steamers.

The Passenger Steamers arriving continue to be regularly visited and examined.

Fishing Boats.

The total arrival of fishing vessels at the Quay, North Shields, steam and sailing, is 13,340* (6,510 Trawlers and 6,830 Herring Boats), as compared with a total of 13,527 in the previous year. 56 of these, in foul condition, were cleansed and deodorized on notice from the Inspector. The rest were in good order.

* From a return courteously furnished by Mr. Thos. MacKenzie, Quay Master, North Shields.

Foul Cattle Ships.

The Inspector reports that 4 Cattle Ships arrived in the Port direct with cattle, and 1 after having landed cattle elsewhere. They were cleansed under his supervision.

Regulations.

Copies of Regulations issued have, as usual, been posted on all gangways, and delivered on board of vessels in the port.

Cholera, Yellow Fever, and Plague.

No cases occurred in the Tyne Port during the year 1902.

Floating Hospital.

In February, at the request of the Local Authorities on Tyneside, the hospital was reserved for the treatment of smallpox which might arise in the various districts where no accommodation existed for its reception. During the outbreak of smallpox on Tyneside from February to June, 38 cases were admitted from the Borough of North Shields, 2 cases from Jarrow, 7 cases from Blaydon, 1 case from Wallsend, and 1 case from Willington Quay. This arrangement existed until the end of the year and necessarily postponed dealing with the important question which will have to be faced in the near future, viz. :—The provision of an adequate administrative department for the Floating Hospital, which is a model hospital of its class as far as ward accommodation is concerned.

New Hospital.

A scheme for the provision of a New Hospital for the treatment of the ordinary infectious cases, *i.e.*, typhoid, scarlet fever, diphtheria, &c., has been considered by the Hospital Committee. The recommendations put forward were that the Floating Hospital should be used for smallpox and plague if necessary, and that another hospital should be erected on shore for the treatment of the commoner and less dangerous infectious cases. Nothing short of a scheme like this will meet with the views and approval of the Local Government Board, as there are serious objections to the old method of treating smallpox in a general infectious hospital. No doubt during this year action in a practical form will be taken by the Authority on these important subjects upon which the proper administration and efficiency of the Port Sanitary work depends.

W. EDMUND HARKER, M.D., D.Hy.,

Medical Officer.

Tynemouth,

February 1903.